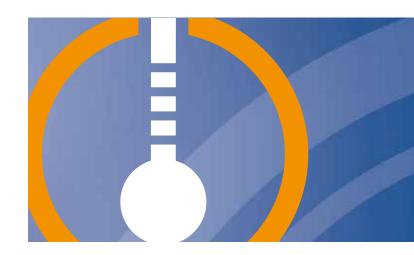


Temperature

Innovative solutions for the most demanding standards





Contact:

Tel.: +49 661 6003-724

E-mail: temperature measurement @jumo.net

Dear Reader.

Temperature one of the most commonly measured physical parameters in the world.

The mid 1960s were the beginning of an era during which JUMO perfected the manufacturing of high-quality precise and long-term-stable temperature probes as a core competence. Since this time, JUMO has produced top-rate RTD temperature probes and thermocouples. We are now one of the leading manufacturers worldwide.

Our customers benefit from our excellent experience in design and our first-rate manufacturing know-how.

These two advantages allow us to manufacture batches with small quantities, but also large quantities for series production with a high level of automation. JUMO has achieved an extraordinary quality standard through motivated employees, statistical process control and optimum processes. High standards are imposed starting with the design process. This leads to innovative, economical solutions that are right for the market. Another important factor is extensive qualification measures for our products. Especially in series production, we conduct these measures together with our customers. We keep our products at the state of the art through continuous new and ongoing development.

Our competence is further reinforced by our DAkkS laboratory where highly precise measurements are possible, and by our own temperature sensor thin film manufacturing. We have been manufacturing platinum-chip temperature sensors in complex production processes for 30 years.

Today JUMO temperature sensors are used in many areas of industry and services where they guarantee consistent, high quality in products.

The customer is always the focus of attention in all we do. Customer satisfaction and long-term collaboration are matters of prime concern for us. They are the driving force for our continued top-class performance.

This brochure will give you an overview of our products. Of course we would also be happy to develop individual solutions for you, completely customized to your requirements.

You can find detailed information about our products under the specified type/product group number at www.jumo.net.







Contents

Temperature measurements	4
Industrial sectors	
Thermocouples	6
Screw-in thermocouples	
Push-in thermocouples	
Mineral-insulated thermocouples	
Insertion thermocouples	
RTD temperature probes	12
Screw-in RTD temperature probes	
Push-in RTD temperature probes	
Mineral-insulated RTD temperature probes	
Insertion RTD temperature probes	
Ambient RTD temperature probes	
Surface RTD temperature probes	
RTD temperature probes for industrial applications	5
Heat meter RTD temperature probes	
JUMO DELOS series	
Wireless data transmission	
Accessories	26
Platinum temperature sensors	28
DAkkS calibration service	32
Services & Support	34



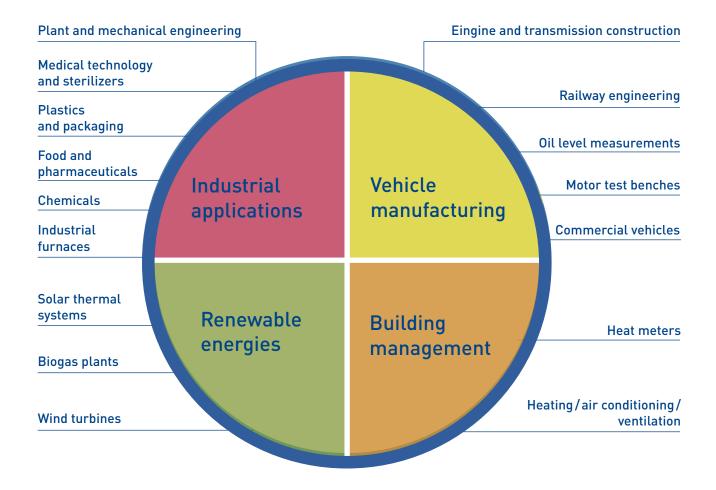
Temperature measurements

Temperature is one of the most important process variables in the industry. Temperatures must be recorded and processed for numerous manufacturing processes.

The spectrum of applications ranges from measurements in building services to measuring a temperature of up to 1600 °C in industrial furnace construction and foundry technology. Because so many different applications are involved, the thermal and mechanical requirements for temperature probes vary widely and have changed over the years. Instruments can be adapted for specific measuring tasks with various protection fittings and materials as well as terminal heads, cables and connectors. This makes it possible to produce reliable results even with extreme vibrations, atmospheres containing steam and under pressure, and aggressive media.



Industrial sectors



In addition to products for these industries, our portfolio also includes many other design types for other applications.

To find the right product for you, just contact us!

Approvals

ATEX, GOST, DIN EN 14597, GL, EHEDG















Sample application



JUMO mineral-insulated thermocouples

with standard tab connectors according to DIN 43 710 and DIN EN 60 584 type 901221



The soil freezing system under construction



The soil freezing system in operation

Safeguarding a construction method in civil engineering with freezing soil

To make it possible to connect a wastewater pipe to a shaft on-site and to concrete it in, the national roads administration in Oslo, Norway decided to apply a waterproof seal by freezing the soil. This is a method by which artificially freezing the water in the soil solidifies the soil and makes it impermeable to water.

A company specializing in soil freezing developed a freezer design for laying wastewater pipes consisting of a total of 19 cooling tubes, each 10 m in length. Liquid nitrogen is pumped through cooling tubes into the ground at a temperature of -196 °C. The nitrogen emerges and comes in direct contact with the soil.

The evaporation process that then occurs rapidly draws heat from the ambient soil. To record the temperature, the cooling tube inputs are fitted with a total of 19 JUMO mineralinsulated thermocouples with a fixed compensating circuit of type 901221/20... and 20 Pt 100 RTD temperature probes with a fixed connecting cable of type 902150/10... to measure the temperature in the frozen ground. They had been installed in the soil at different depths and distances from the tubes.

It takes a total of four days to freeze the soil. This time matches the calculations of the Finite Element Program (FEM = Finite-Element Method) for heat transfer in the soil.



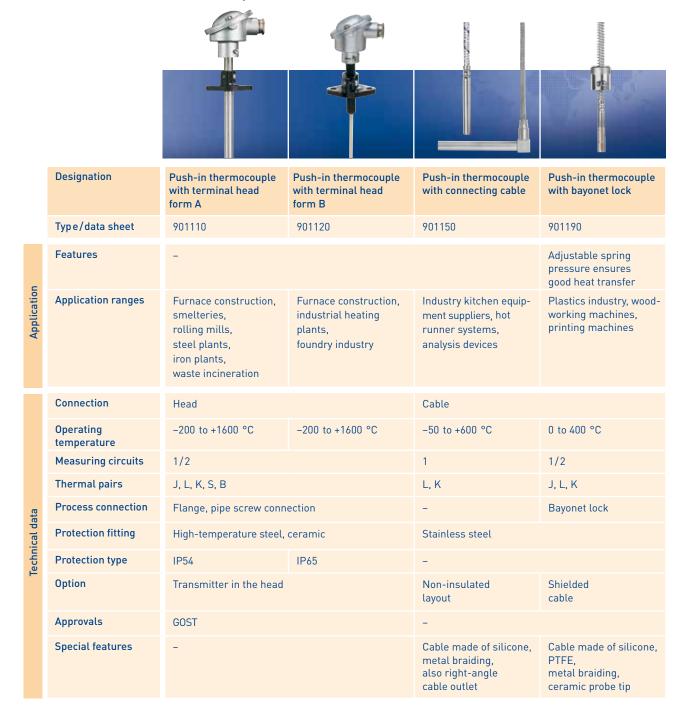


Screw-in thermocouples

	Designation	Screw-in thermocouple with terminal head form B	Screw-in thermocouple with terminal head form J	Screw-in thermocouple with connecting cable	Screw-in/push-in thermocouple for devices and plants tested to DIN EN 14597	Screw-in melt thermocouple
	Type/data sheet	901020	901030	901050	901006	901090
Application	Features	-			For operating media water, oil and air	-
	Application ranges	Woodworking machines, drying systems, furnaces, smelteries and rolling mills	Solid fuel boilers, plastics industry	Industry kitchen equipment suppliers, temperature control instruments, plastics industry		Plastics industry
	Connection	Head		Cable	Head, cable	Cable, connector
	Operating temperature	−200 to +800 °C	-200 to +800 °C	-200 to +600 °C	0 to +1500 °C	-40 to +600 °C
	Measuring circuits	1/2				1
	Thermal pairs	J, L, K		L, K	L, K, S, B	J, L, K
data	Process connection	Thread			Thread, flange, pipe screw connection	Thread
echnical data	Protection fitting	Stainless steel	Stainless steel	Stainless steel	Stainless steel, steel, ceramic	Stainless steel, coating
Tech	Protection type	IP65		-		
	Option	Transmitter in the head	-	Non-insulated layout	-	Non-insulated layout
	Approvals	GOST		-	Devices tested for DIN EN 14597	-
	Special features	Replaceable measuring insert, extension tube	Union nut	Cable made of silicone, PTFE, metal braiding		Cable made PTFE, metal braiding, Probe tip flat/ blade-shaped



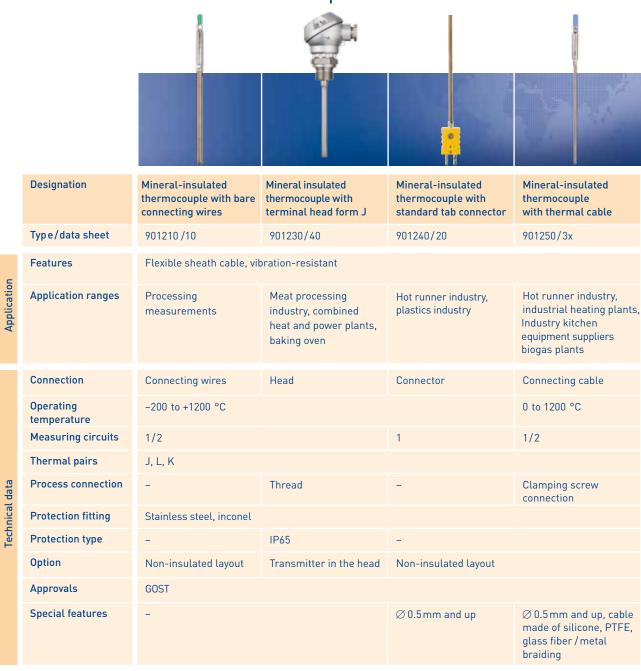
Push-in thermocouples

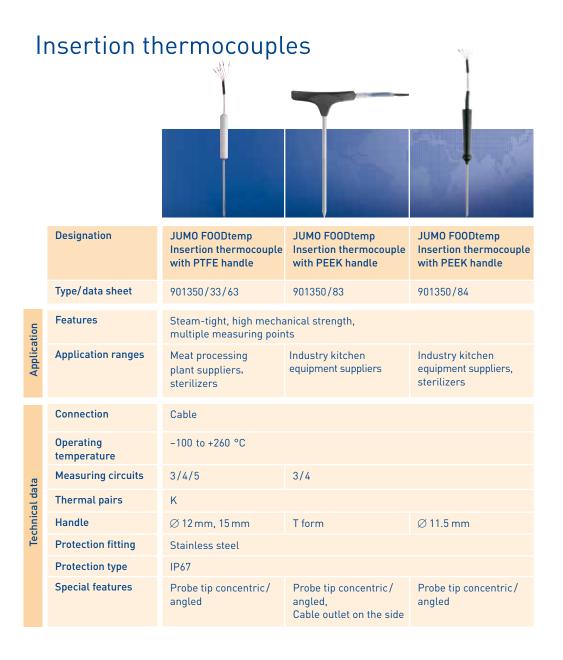


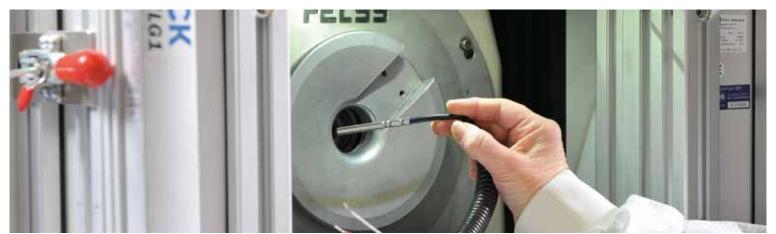


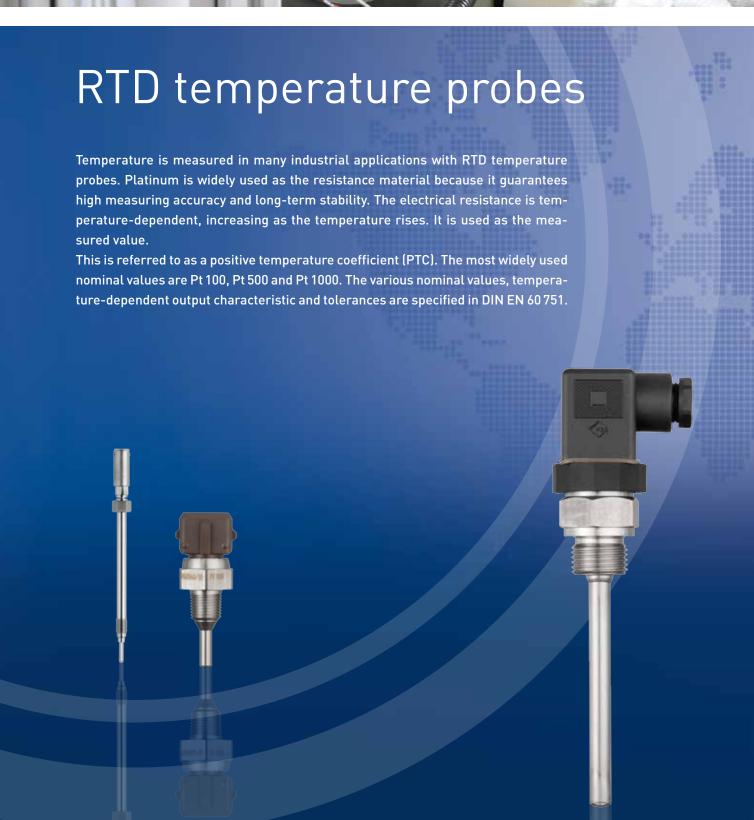


Mineral-insulated thermocouples

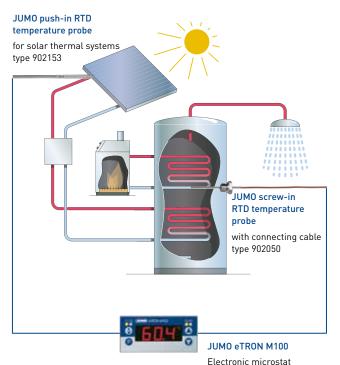








Sample application





Control of a solar power unit with JUMO

JUMO RTD temperature probe for solar thermal energy

type 701061

Though often underestimated, temperature probes are an important part of a solar thermal system. They must be temperature-resistant, leak-proof and long-term stable, must withstand extremely adverse operating conditions on the roof and return reliable measurement results for the service life of the solar power unit, which may be 20 years or more. For guaranteed results, use of a Pt 1000 platinum temperature sensor is recommended. Because such a high nominal value is maintained, the resistance of the connecting cable has only minimal effect on the temperature measurement.

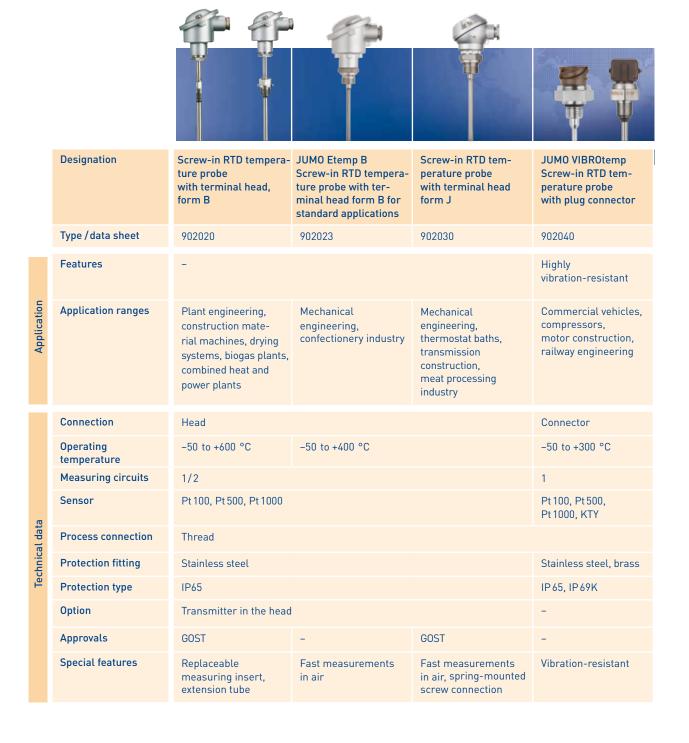
While the sun's potential may be free, the source of economical and high-quality solar sensors is JUMO. The company has been recognized as a high-quality supplier of solar thermal energy sensors for many years. JUMO RTD temperature probes have proven their effectiveness in practical applications a million times over.

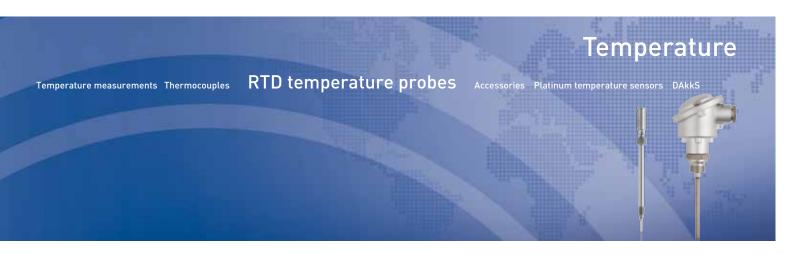
The same applies to the small system for private houses and to the large professional plants.



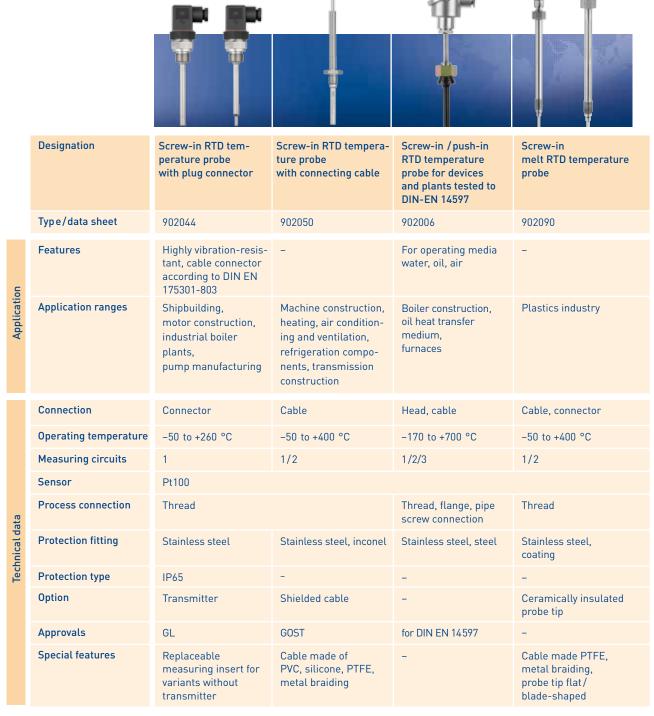


Screw-in RTD temperature probes





Screw-in RTD temperature probes

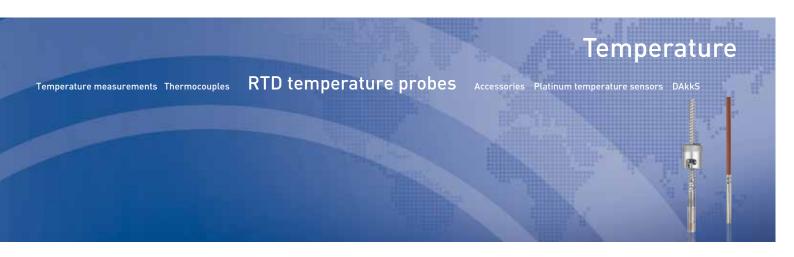




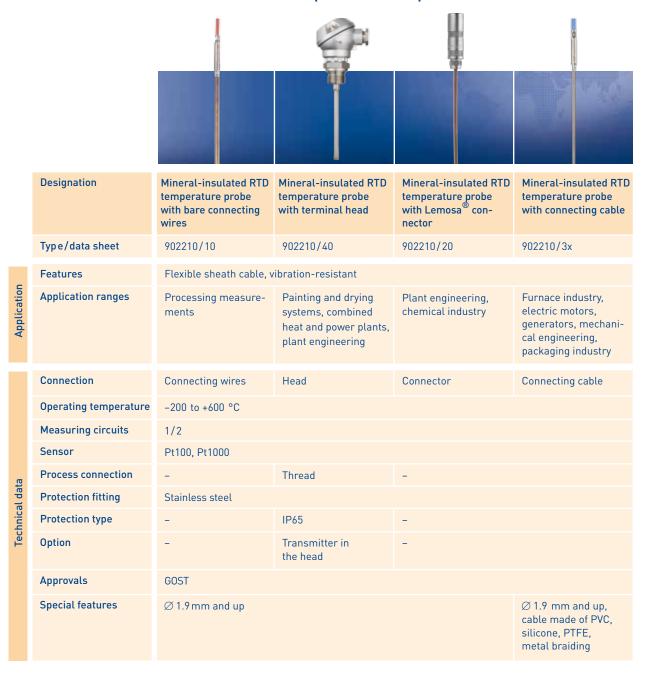


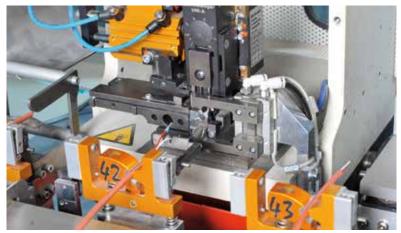
Push-in RTD temperature probes

						Ш	
	Designation	Push-in RTD temperature probe with terminal head form B	JUMO Etemp B push-in RTD tem- perature probe with terminal head form B for standard applica- tions	Push-in RTD tem- perature probe with terminal head form J	Push-in RTD temperature probe with connecting cable	Push-in RTD tem- perature probe with connecting cable for solar thermal systems	Push-in RTD temperature probe with bayonet lock
	Type/data sheet	902120	902123	902130	902150	902153	902190
Application	Features	-	-	-	-	For collector and storage temperature measurements	Adjustable spring pressure ensures good heat transfer
	Application ranges	Plant engineer- ing, industrial heating plants, drying systems, construction material machines	Mechanical engineering, plant engineering	Mechanical engineering, temperature con- trol instruments, conveyor systems, textile industry	Thermostat baths, packaging ma- chine industry, heating and drying chambers, hy- draulic plants	Solar thermal systems	Plastics industry, special machine construction
	Connection	Head			Cable		
	Operating temperature	-50 to +600 °C	-50 to +400 °C	-50 to +400 °C		−50 to +260 °C	−50 to +350 °C
	Measuring circuits	1/2				1	1/2
	Sensor	Pt100 Pt100, Pt1000			Pt100	Pt100, Pt1000	Pt100
. data	Process connection	Flange, pipe screw connection			-	-	Bayonet lock
Technical	Protection fitting	Stainless steel				Stainless steel, brass	Stainless steel
Tec	Protection type	IP 65			-	-	-
	Option	Transmitter in the	head		Shielded cable	-	Shielded cable
	Approvals	GOST	-	GOST	-	-	-
	Special features	Replaceable measuring insert	-	Fast measure- ments in air	Cable made of PVC, PUR, silicone, PTFE, metal braiding	Cable made of PVC, PUR, silicone, PTFE	Cable made of silicone, PTFE, metal braiding, ceramic probe tip



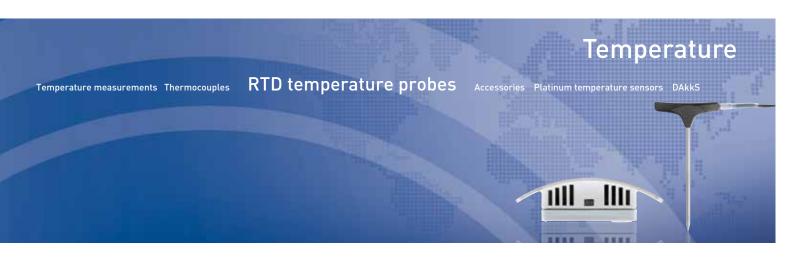
Mineral-insulated RTD temperature probes



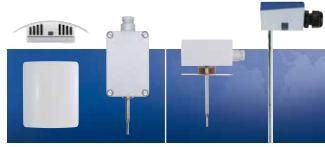




In	Insertion RTD temperature probes					
	Designation	JUMO FOODtemp insertion RTD temperature probe with PTFE handle	JUMO FOODtemp Insertion RTD temperature probe with FPM handle	JUMO FOODtemp Insertion RTD temperature probe with PEEK handle	JUMO FOODtemp Insertion RTD temperature probe with PEEK handle	
	Type/data sheet	902350/22/23	902350/37/38	902350/82/83	902350/84	
	Features	Steam-tight, high mechanical strength				
Application	Application ranges	Industry kitchen equipment suppliers, Meat processing plant suppliers, baking oven	Apparatus manufacturing	Industry kitchen equipment suppliers,	Industry kitchen equipment suppliers, baking oven	
	Connection	Cable				
	Operating temperature	−50 to +260 °C	-50 to +200 °C	−50 to +260 °C		
	Measuring circuits	1/2	1	1/2		
	Sensor	Pt 100				
Technical data	Handle	Ø 10 mm, Ø 12 mm, Ø 15 mm	Ø 6.5 mm	T form	Ø 11.5 mm, Ø 20 mm, Ø 15 mm	
chnica	Protection fitting	Stainless steel	-	Stainless steel		
Te	Protection type	IP 67	-	IP67		
	Option	Non-insulated layout	Transmitter in the head	Non-insulated layout		
	Approvals	GOST				
	Special features	Probe tip concentric/angled	-	Probe tip concentric/angled, cable outlet on the side	Probe tip concentric/angled	



Ambient RTD temperature probes

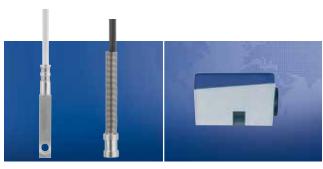


	Designation	Ambient and outdoor RTD temperature probe	RTD temperature probe	
	Type/data sheet	902520/10/11/13	902520/20/25	
uoi	Features	Wall mounting	Duct mounting	
Application	Application ranges	Building services management, combined heat and power plants	Building services management, warm air generator	
	Connection	Terminal box		
	Operating temperature	-50 to +90 °C	-50 to +200 °C	
	Measuring circuits	1/2	1/2	
ata	Sensor	Pt100, Pt1000, Ni1000		
Technical data	Process connection	-	Pipe screw connection, flange	
Tech	Protection fitting	-	Stainless steel	
	Protection type	IP65		
	Option	Transmitter		
	Approvals	GOST		

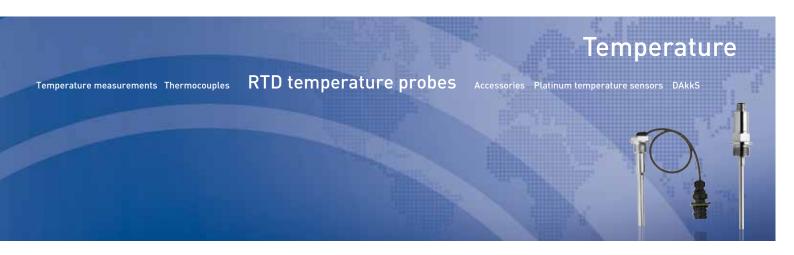




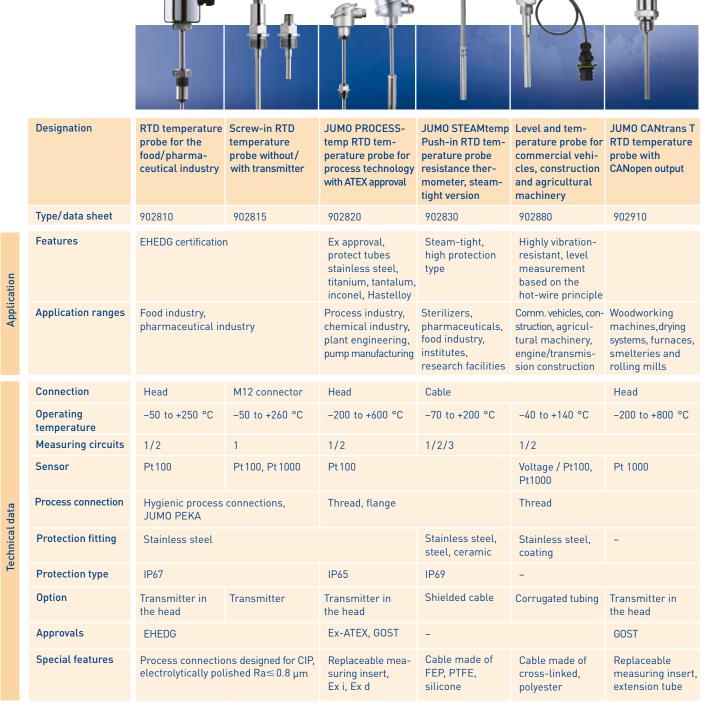
Surface RTD temperature probes



	Designation	Surface RTD temperature probe with connecting cable	Surface RTD temperature probe
	Type/data sheet	902550	902550
tion	Features	Low thermal mass for round and	d level surfaces
Application	Application ranges	Packaging machines, installation in tubing	Plant engineering
	Connection	Cable	Terminal box
	Operating temperature	−50 to +260 °C	-50 to +120 °C
	Measuring circuits	1	
data	Sensor	Pt100, Pt500, Pt1000	Pt100, Pt500, Pt1000, Ni1000
ical	Process connection	Screw, retaining strap	Retaining strap
Technical data	Protection fitting	Stainless steel, aluminum	-
_	Protection type	-	IP65
	Option	Anti-kink protection	-
	Special features	Cable made of PVC, silicone, PTFE, stainless steel-PTFE	Includes installation kit



RTD temperature probes for industrial applications



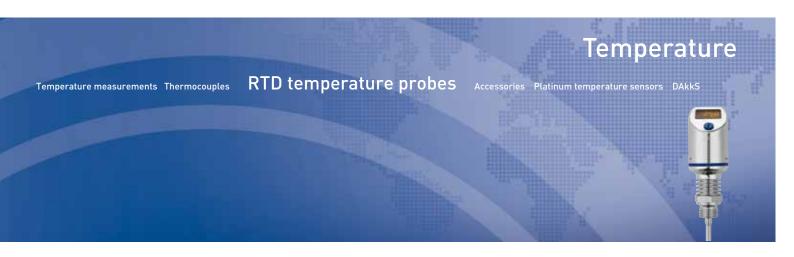




Heat meter RTD temperature probes



	Designation	JUMO HEATtemp Screw-in RTD tempera- ture probe for heat meter with connecting cable for direct installation (type DS/DL)	JUMO HEATtemp Push-in RTD temperature probe for heat meter with connecting cable for im- mersion sleeves (type PS/PL)	JUMO HEATtemp screw-in RTD tem- perature probe for heat meter with terminal head for direct mount- ing (type DL)	JUMO HEATtemp push- in RTD temperature probe for heat meter with terminal head for immersion sleeve (type PL)	
	Type/data sheet	902425	902435	902424	902434	
Application	Features			ation regulations and MID initial calibration, MID (CE and metrology mark)		
Арр	Application ranges	Heat and cold meters				
Technical data	Connection/ connecting cable	Connecting cables with f PVC, PUR, TPE, silicone	errules /	Terminal head with screw terminals/		
	Operating temperature	0 to 180 °C	Type PS: 0 to +150 °C; Type PL: 0 to +180 °C	0 to 180 °C		
	Process connection	Type DS: Screw connection M 10x1; Type DL: Thread G 1/4, G 1/2 stainless steel	Push-in RTD temperature probe for thermowells	Thread G 1/2, stainless steel	Push-in RTD temperature probe for thermowells	
	Protection fitting	Type DS: Stainless steel Ø 5.4 mm, stepped to Ø 3.3/Ø 3.6 mm	Type PS: Stainless steel Ø 5, 5.2 or 6 mm; Type PL: Stainless steel Ø 6 mm, protection tube with fitting tolerance for thermowells	Stainless steel, Ø 8 mm, stepped to Ø 6 mm	Ø 6 mm with fitting tolerance for thermowell; stainless steel	
	Temperature difference	3 to 180 K	Type PS: 3 to 150 K Type PL: 3 to 180 K	3 to 180 K		
	Minimum immersion depth	Type DS: 15 mm, Type DL: 30, 60 to 280 mm	Type PS: > 15 mm	30 mm		
	Fitting length	Type DS: 25 to 60 mm Type DL: 60 to 280 mm	Type PS: 45 to 85 mm Type PL: 85 to 450 mm	85 to 280 mm	85 to 400 mm	
	Approvals	Approval for heat meters, MID and national approval as replaceable temperature probes. Meets the requirements of DIN EN 1434, AGFW FW 202 and FW 211, Approval for cold meters and combined cold/heat meters				



JUMO DELOS series precision transmitters for temperature or pressure



	Designation	JUMO DELOS T for temperature	JUMO DELOS SI for pressure and filling level
	Type/data sheet	902940	405052
Application	Features	Programmable, switching output, selectable display for unit, case and protection fitting made of stainless steel (316L)	Programmable, switching output, measuring range 1:4, selectable display for unit, case and protec- tion fitting made of stainless steel (316L)
	Application ranges	Food and pharmaceutical applications, CIP/SIP systems, plant a mechanical engineering, refrigeration and air conditioning system construction	
	Input	-50 °C to +150 °C -50 °C to +260 °C with extension tube -50 °C to +500 °C with remote RTD temperature probe	rel, abs 400 mbar to 600 bar
	Permissible temperatures	Environment: -25 to +75 °C	Environment: -25 to +75 °C Medium to be measured: -25 to +200 °C
ıl data	Accuracy	Tolerance class: class A, (optionally class AA)	Linearity of measuring span: 0.1 to 0.15 $\%$
Technical data	Output	1 x PNP switching output, 2 x PNP switching output, 1 x PNP switching output and 1 x analog output (choose from 0 (4) to 20 mA, 0 to 10 V)	
	Protection type	IP 67	
	Process connection	Thread, hygienic connections, screw connections, JUMO PEKA	Thread, hygienic connections, pressure separator, JUMO PEKA
	Approvals	EHEDG	





Wireless data transmission – Wtrans probe

	Designation	JUMO Wtrans probeT01 RTD temperature probe with electronic modules up to 85°C	JUMO Wtrans probe T02 RTD temperature probe with electronic modules up to 125 °C	JUMO Wtrans probe T03 RTD temperature probe with ATEX approval and electronic modules up to 85 °C		
	Type/data sheet	902930/10/12/50	902930/20/22/60	902930/15/17/55		
Application	Features	- For mobile or stationary tempe	with modern wireless technology			
	Transmission frequency	868.4 MHz (Europe); 915 MHz (USA, Australia, Canada, New Zealand and other countries); 10 frequencies can be configured in the 915 MHz frequency band				
	Transmission interval	Adjustable from 1 to 3600 s; Factory setting for basic type 902930/10, 902930/12 and 902930/50 = 10 s; Factory setting for basic type 902930/20, 902930/22 and 902930/60 = 15 s; Factory setting for basic type 902930/15, 902930/17 and 902930/55 = 20 s; Adjustable via DIP switches 5 s, 10 s, 20 s or 45 s				
	Open air range	Up to 300 m if a holder for wall mounting is used on the receiver side and with an antenna cable 3 m long				
Technical data	Transmitter Detection (transmitter ID)	5-digit ID, set in the factory with customer-specific configuration also possible				
Tech	Measurement input	Pt 1000 according to DIN EN 60751, in 3-wire circuit				
	Protection type	IP 67 according to DIN EN 60529; For basic type 902930/10, 902930/12, 902930/15, 902930/17, 902930/20 and 902930/22; For basic type 902930/50, 902930/55 and 902930/60 **				
	Lithium battery	Voltage: 3.6 V; rated capacity: 2,2 A	Ah/1.7Ah			
	Available approvals/ap- proval marks	 IC (Industry Canada) for 915 MHz FCC (Federal Communications Commissions) for 915 MHz c UL us (Underwriters Laboratories) ATEX approval for 868,4 MHz *** 				
	* Not for TO3					

- * Not for T03.
- ** Only with machine connector M 12×1 screwed on.
- *** For Wtrans T03.

Wireless data transmission – Wtrans receiver

Operation and configuration is possible via the keyboard in connection with a 2-line LCD display or, more comfortable, using a setup program. Thus, parameters such as filter constants, offset, alarms and fly back (minimum and maximum value memory) can be separately set for each channel. For this purpose, a plug is provided on the front for a PC interface with TTL/RS 232 or USB/TTL converter to connect the receiver and the PC.



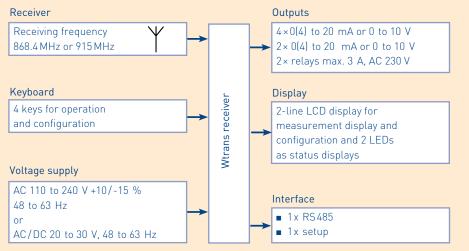
Type 902931

Features

Wtrans T01 DIN rail case, IP 20

- For RTD temperature probe, thermocouple, potentiometer and voltage
- Interface RS 485 with Modbus protocol
- Wireless reception of measurement values
- Wiring expenses are eliminated with modern wireless technology
- For up to 16 transmitters per receiver

Block diagram of receiver



Approvals/approval marks

- IC (Industry Canada), applies to 915 MHz, 902931/10, 230 V
- FCC (Federal Communications Commissions) for 915 MHz, 902931/10, 230 V
- c UL us (Underwriters Laboratories) 902931/10, 230 V





Accessories





Thin-film method platinum temperature sensors

JUMO offers a diverse assortment of platinum temperature sensors.

With an annual production of several million temperature sensors, we are one of the most important global suppliers.

From our clean room emerges precision and long-term stability. Tolerances from $+/-0.1\,\mathrm{K}$ are produced in series. Since the 1980s, modified processes from semiconductor manufacturing have been adapted to Pt 100 production. Further customer



Thin-film method platinum temperature sensors







Photolithography: generating



Laser calibration of platinum chip temperature sensors

JUMO relies on quality, that is combined with fair market prices

Thin-film method platinum temperature sensors promise excellent accuracy and long-term stability. To make this promise a reality, JUMO relies exclusively on Germany with its top-rate production location. The tough demands are met by qualified employees and an efficient QM system. Our modern production facilities are highly automated. This not only ensures great efficiency but also optimizes the priceto-performance ratio. However, our system still allows for a high level of flexibility so that we can respond to special customer applications.

More than 50 years of experience for our customers

Experience from our own temperature probe production is incorporated directly into the development of new temperature sensors. JUMO provides competent support for preparing and assembling temperature sensors.

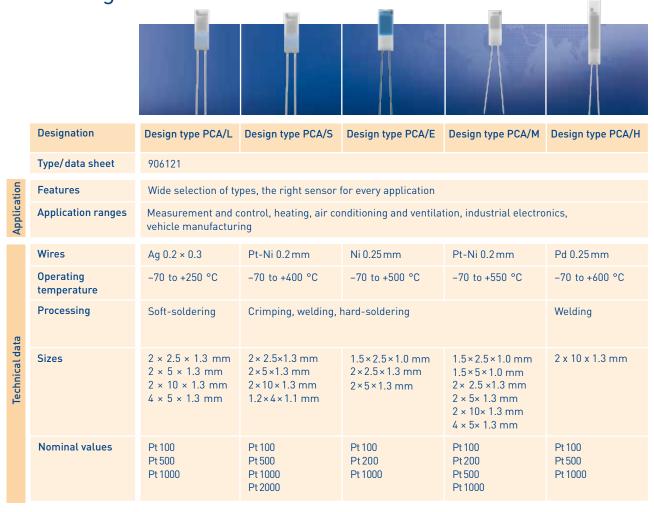
Customized modifications

Customers and their application requirements are always the focus of attention, particularly when OEM applications are involved. Much in demand are not only mechanical and geometric system solutions, but also special selections with a low tolerance class.





Platinum-chip temperature sensors with connecting wires according to DIN EN 60751





Platinum temperature sensors in special design types



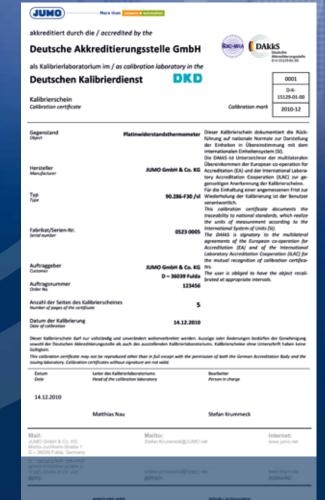


DAkkS

When regulation (EC) No. 765/2008 took effect on January 1, 2010, control over accreditation in Europe was completely revised. Accreditation is now the responsibility of a single national accreditation body for each member state.

In the Federal Republic of Germany, §13 paragraph 1 of AkkstelleG (the accreditation body law) transfers monitoring duties to the Deutsche Akkreditierungsstelle GmbH (DAkkS).





DAkkS

DAkkS calibration service

Calibration object	Measuring range	Measurement uncertainty
 RTD temperature probes Direct display of electronic thermometers (temperature measuring chains) Data logger 	0.01 °C -80 to 0 °C >0 to 90 °C >90 to 300 °C	5 mK 15 mK 10 mK 15 mK
- Thermocouples	-80 to +200 °C >200 to 300 °C	0.2 K 0.3 K
- Precious metal thermocouples	>300 to 1100 °C	1.0 K
Non-precious metal thermocouplesDirect display electronic thermometers	>300 to 1100 °C	1.5 K
 Resistance thermometers with transmitter Direct display electronic thermometers with transmitter 	-80 to 0 °C > 0 to 90 °C > 90 to 300 °C	45 mK 40 mK 45 mK
- Temperature block calibrators	30 to 133 °C >133 to 660 °C >660 to 1100 °C	0.2 K 1.5 mK x (T) 2.5 K

Lab ID D-K-15129-01-00, (extended options through factory calibration on request)

Accuracy matters

The requirements for almost all processes continuously grow in terms of increased output and quality as well as lower process costs. Reducing the measurement uncertainty of the systems used to record process parameters is often closely tied to this trend. At the same time, new standards increase the requirements for documenting processes and monitoring measuring equipment.

As a result, the main criterion for all calibrations is to trace the measurement results back to national standards. Unless otherwise specified, DAkkS-calibrated temperature probes and testing equipment are generally recognized as the instrument for retracing measurement results to standards in Europe and abroad.

JUMO calibration laboratory

Temperature is one of the most important process variables. The JUMO calibration laboratory has been accredited for temperature as a process variable since 1992. The current DAkkS accreditation again confirms competence according to DIN EN ISO/IEC 17025:2005 and also authorizes calibrations of RTD temperature probes, thermal pairs und block calibrators.

On-site calibration service

Measurement equipment used for calibration cannot always be taken out of service for several days, let alone disassembled and sent in for calibration. Our on-site calibration service ensures especially short down times for these situations. The JUMO on-site calibration service also takes into account local installation conditions. The service engineer can also repair or replace individual components if necessary. The retraceable measurement results are created according to DIN EN 10204, including use of a certified quality management systems according to DIN EN ISO 9001:2000.



Services & Support

It is the quality of our products that is responsible for such a high level of customer satisfaction. But our reliable after-sales service and comprehensive support are also appreciated. Let us introduce you to the key services we provide for our innovative JUMO products. You can count on them – anytime, anywhere.

JUMO Services & Support - so that it all comes together!

Manufacturing Service



Are you looking for a competitive and efficient system or component supplier? Regardless of whether you seek electronic modules or perfectly fitting sensors, either for small batches or mass production – we are happy to be your partner. From development to production we can provide all the stages from a single source. In close cooperation with your business our experienced experts search for the optimum solution for your application and incorporate all engineering tasks. Then JUMO manufactures the product for you.

As a result, you profit from state-of-the-art manufacturing technologies and our uncompromising quality management systems.

Customer-specific sensor technology

- Development of temperature probes, pressure transmitters, conductivity sensors, or pH and redox electrodes according to your requirements
- A large number of testing facilities
- Incorporation of the qualifications into application
- Material management
- Mechanical testing
- Thermal test



Electronic modules

- Development
- Design
- Test concept
- Material management
- Production
- Logistics and distribution
- After-sales service

Metal technology

- Toolmaking
- Punching and forming technology
- Flexible sheet metal machining
- Production of floats
- Welding, jointing, and assembly technology
- Surface treatment technology
- Quality management for materials







Information & Training



Would you like to increase the process quality in your company or optimize a plant? Then use the offers available on the JUMO Web site and benefit from the know-how of a globally respected manufacturer. For example, under the menu item "Services and Support", you will find a broad range of seminars. Videos are available under the keyword "E-Learning" about topics specific to measurement and control technology. Under "Literature" you can learn valuable tips for beginners and professionals. And of course, you can also download the current version of any JUMO software or technical documentation for both newer and older products.

Product Service



We have an efficient distribution network on all five continents available to all of our customers so that we can offer professional support for everything concerning our product portfolio. Whether you need assistance in a consultation, with product selection, engineering, or optimum usage of our products - a team of professional JUMO employees is near you, ready to help. Even after our devices are commissioned you can count on us. Our telephone support line is available to give you answers quickly. If a malfunction needs to be repaired on site, our Express Repair Service and our 24-hour replacement part service are available to you. That provides peace of mind.

Maintenance & Calibration



Our maintenance service helps you to maintain optimum availability of your devices and plants. This prevents malfunctions and downtime. Together with the responsible parties at your company we develop a future-oriented maintenance concept and are happy to create all required reports, documentation, and protocols. Because we know how important precise measurement and control results are for your processes we naturally also professionally calibrate your JUMO devices - on site at your company or in our accredited DAkkS calibration laboratory for temperature. We record the results for you in a calibration certificate according to EN 10 204.

